

# PLNT 7170 Advanced Plant Breeding

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## Course Details

Course Title – Advanced Plant Breeding

Course Number -PLNT 7170

Term - Fall 2023

Credit Hours - 3

**Pre-requisites** - A minimum grade of "C" in PLNT 3520 Principles of Plant Improvement or equivalent, or permission of the professor.

Class Times & days – Tuesday 10am – 12pm

Class location – 310 and 218 Plant Science

## Instructor Contact Information

Name

Dr. Robert Duncan

Email

[rob.duncan@umanitoba.ca](mailto:rob.duncan@umanitoba.ca)

All email communication must conform to the Communicating with Students University Policy. I will normally respond to an email within 24 hours. The best way to discuss the course and course material is by email and by making an appointment to meet.

### Office location

305 Plant Science

### Student Meetings

I am eager to meet with PLNT 7170 students individually or in small groups. Please email and we can setup a time and date that works best for you and me. I will also stay after class each day to discuss course information and discuss plant breeding.

## Traditional Territory or Land Acknowledgment

The University of Manitoba campuses are located on original lands of Anishinaabeg, Cree, Oji-Cree, Dakota and Dene peoples, and on the homeland of the Métis Nation. We respect the Treaties that were made on these territories, we acknowledge the harms and mistakes of the past, and we dedicate ourselves to move forward in partnership with Indigenous communities in a spirit of reconciliation and collaboration.

## Equity and Inclusion Commitment

I will ensure that the class, lab and entire learning environment related all my courses and student training is equal and fair for each and every student. Absolutely no oppression in or out of the classroom will be tolerated. Please work with me to guarantee that we have a safe, inclusive and respectful learning environment.

## Course Description

### U of M Course Calendar Description

Principles of plant breeding and genetics, and their application to problems in plant science. Emphasis will be placed on concepts in plant breeding and genetics; new technologies and their implications in plant science; current regulations of genetic materials; resource and financial requirements for plant breeding programs.

### General Course Description

Students interested in working in the agricultural industry and in particular, the breeding or seed industry will benefit most from this course. The course will focus on plant breeding topics and applied plant breeding experiences, with the overall goal of trying to expose graduate students to a career in plant breeding.

# Course Learning Outcomes

Upon completion of this course, students should be able to:

- Communicate with an understanding of basic plant breeding facts and principles
- Apply genetic and plant breeding principles to new challenges
- Evaluate scientific literature related to crop improvement
- Design appropriate crop improvement strategies for specific problems
- Deal with Federal Government crop-related regulations effectively
- Develop budgets and resource lists required to operate successful plant breeding programs

## Course Materials

### Reading Material

Priyadarshan, P.M. 2019. **Plant Breeding: Classical to Modern**. Springer Nature Singapore Pte Ltd., Singapore. pp. 570. This book is available through the University of Manitoba library as an e-book download, can be purchased as an e-book or hardcover book through <https://www.springer.com/gp/book/9789811370946>, or can be purchased as a hardcover book through Amazon.ca.

Sleper, David A. and Poehlman, John M. 2006. **Breeding Field Crops**. Fifth Ed. Blackwell Publishing. pp. 424. This book is available through the University of Manitoba library. A limited number of copies may be available in the University bookstore or through Amazon.ca.

Acquaah, George. 2012. **Principles of Plant Genetics and Breeding**. Second Ed. Wiley-Blackell. pp. 740. This book is available through the University of Manitoba library or through Amazon.ca.

### **Additional reading material can include:**

Allard, R.W. 1950. Principles of Plant Breeding.

Borojevic, S. 1990. Principles and Methods of Plant Breeding.

Falconer, D.S. 1989. Introduction to Quantitative Genetics.

Fehr, W.R. 1987. Principles of Cultivar Development

Poehlman, J.M., and Sleper, D.A. 1995. Breeding Field Crops.

Steel, R.G.D. and Torrie, J.h. 1980. Principles and Procedures of Statistics: A biometrical approach.

### Using Copyrighted Material

Please respect copyright. Copyrighted works, including those created by the instructor or teaching assistant, are made available for private study and research, and must not be distributed in any format without permission. For more information, see the University's Copyright Office website at <http://umanitoba.ca/copyright/> or contact [um\\_copyright@umanitoba.ca](mailto:um_copyright@umanitoba.ca).

### Technology

It is the general University of Manitoba policy that all technology resources are to be used in a responsible, efficient, ethical and legal manner. The student can use technology during classes and labs only for educational purposes approved by instructor and/or the University of Manitoba Student Accessibility Services. Students should not participate in personal direct electronic messaging / posting activities (e-mail, texting, video or voice chat, wikis, blogs, social networking (e.g. Facebook) online and offline "gaming" during the scheduled class/lab times. If a student is on call (emergency) the student should switch his/her cell phone and/or notifications off. (©S Kondrashov. Used with permission).

It is a requirement that you have all hardware, software and connection ability necessary to successfully operate UM Learn. Course material, grades and communication will occur using UM Learn.

### UM Learn

Electronic files related to the course content will be added to UMLearn. Go to the University of Manitoba website [umanitoba.ca](http://umanitoba.ca). Click on the Current Students tab and then UM Learn in the list of options, then find the course on your course list. Information will be posted on the A01 section.

## Course Schedule

This schedule is subject to change at the discretion of the instructor and/or based on the learning needs of the students but such changes are subject to [section 2.8 of the ROASS procedure](#)).

Lectures will be held in person on Tuesday from 10:00am – 12:00pm.  
Room 310 - September 19 and October 24th  
Room 323 - October 3  
Room 218 - October 10 to December 5

### Important Dates:

September 19, 2023	Class begins
September 26, October 31, and November, 14 2023	No Classes
October 2, 2023	National Day for Truth and Reconciliation - no class

October 9, 2029	Thanksgiving - no class
October 10, 2023	<b>Manuscript Presentation #1 (15%)</b>
October 17, 2023	<b>Assignment #1 Due – Manuscript Review (10%)</b>
October 31, 2023	<b>Assignment #2 Due – Research Proposal (15%)</b>
November 13-17, 2023	Fall break, no class
November 21, 2023	Last day for voluntary withdrawal
November 21, 2023	<b>Current Breeding Topic Presentation #2 (15%)</b>
November 28, 2023	<b>Assignment #3 Due – Breeding Budget (15%)</b>
December 5, 2023	<b>Job Interview Presentation #3 - Last day of class (15%)</b>
December 12, 2023	<b>Assignment #4 Due – Cultivar Registration (15%)</b>

The schedule is listed below. Slight deviations to topics may be made due to time constraints or interests of the students.

### COURSE OUTLINE

Date	Topic	Written Assignments Due
19-Sep	Syllabus and Intro / Breeding Methods	
26-Sep	<i>NO CLASS</i>	
03-Oct	Perennial Grains Breeding / Breeding Methods/Selections	
10-Oct	<b>Manuscript Presentation #1 (2) / Brassica Breeding</b>	
17-Oct	Corteva Tour in Carman	<b>#1 Manuscript Review/Critique</b>
24-Oct	Participatory Plant Breeding / Seed Production and Registration	
31-Oct	<i>NO CLASS</i>	<b>#2 Research Proposal</b>
07-Nov	DL Seeds Tour in Morden	
14-Nov	Fall Break	
21-Nov	Winter Wheat Breeding / <b>Current Topic Presentation #2 (2)</b>	
28-Nov	Biotech and PNTs / Bayer 11am	<b>#3 Breeding Budget</b>
05-Dec	<b>Job Interview Presentation #3 / Intellectual Property</b>	
12-Dec	<i>NO CLASS</i>	<b>#4 Cultivar Registration</b>

## Course Evaluation and Assessments

### Summary

Students will be evaluated using 4 written assignments and 3 oral presentations in class.

### Grade Assignment:

All assignments will be worth 15%. The written manuscript review/critique will be worth 10%.

## Assessment Descriptions and Feedback

Written Assignment guidelines will be provided at least 2 weeks in advance of the due date. Feedback will be provided on the hard-copy assignment when it is returned.

Oral Presentations will be graded based upon a previously provided rubric. Feedback will also be discussed directly following the presentation.

Students can expect to get grades for assignments no later than two weeks from the time of submission.

## Grading

Letter Grade	Percentage out of 100	Grade Point Range	Final Grade Point
A+	90-100	4.25-4.5	4.5
A	80-89	3.75-4.24	4.0
B+	75-79	3.25-3.74	3.5
B	70-74	2.75-3.24	3.0
C+	65-69	2.25-2.74	2.5
C	60-64	2.0-2.24	2.0
D	50-59	Less than 2.0	1.0
F	Less than 50		0

Final grades will be rounded to the closest whole number.

No extra credit opportunities are available.

## Expectations

Students are expected to attend and participate in all classes as scheduled. It is the student's responsibility to take notes, participate in class discussions, and ask questions if they do not understand a point. Students are expected to arrive to class on time and be ready to take notes or present when the class starts. If students require further clarification of course material, it is their responsibility to contact the professor and set an appointment to discuss the problem. Students and the professor are expected to comply with the University of Manitoba's Respectful Work and Learning Environment Policy:

[http://umanitoba.ca/admin/governance/governing\\_documents/community/230.html](http://umanitoba.ca/admin/governance/governing_documents/community/230.html)



# Course Policies

## Academic Integrity

**Academic dishonesty is a serious offence. Please refer to the General Academic Regulations section in the 2021/22 General Calendar for information on 'Plagiarism and Cheating' in the "Academic Integrity" section and 'Examinations: Personations' in the "Final Examinations Regulations" section.**

Each student in this course is expected to complete their coursework and programs of study with integrity by making a commitment to the six fundamental values of honesty, trust, fairness, respect, responsibility, and courage. <http://umanitoba.ca/student-supports/academic-supports/academic-integrity>.

Students are encouraged to discuss problems, interact with each other and ask questions. However, materials submitted for grading **must be the student's own work** and properly credit others through appropriate scientific citation for information that is from other sources. (Note: a variety of citation styles are acceptable, but sufficient information to retrieve the original article must be provided.) Plagiarism, duplicate submission, cheating on quizzes, tests, and exams, inappropriate collaboration, academic fraud, and personation are in violation of the Student Discipline Bylaw and will lead to the serious [disciplinary action](#). Visit the [Academic Calendar](#), [Student Advocacy](#), and [Academic Integrity](#) web pages for more information and support.

## Accessibility

The University of Manitoba is committed to providing an accessible academic community. [Students Accessibility Services \(SAS\)](https://umanitoba.ca/student-supports/accessibility) (<https://umanitoba.ca/student-supports/accessibility>) offers academic accommodation supports and services such as note-taking, interpreting, assistive technology and exam accommodations. Students who have, or think they may have, a disability (e.g., mental illness, learning, medical, hearing, injury-related, visual) are invited to contact SAS to arrange a confidential consultation.

520 University Centre

(204) 474-7423

[Student\\_accessibility@umanitoba.ca](mailto:Student_accessibility@umanitoba.ca)

## Attendance

Attendance for each class is mandatory.

## Assignment Extension and Late Submission

- All assignments should be submitted by the due date listed in the course schedule. If an extension is required the student must inform the instructor in advance.
- Students who fail to submit work on time and do not ask for an extension are subject to the late assignment penalty. The penalty is an 10% per day reduction in the value of the student's grade for up to five days. After that point, the work is worth zero percent. Students who are not able to submit assignments on time due to health or other compassionate reasons must submit a written explanation. If an extension is granted, the penalty will be 10% for each working day of the

extension to a maximum 50%. Only in extreme circumstances will an extension be granted with no late deductions.

- Students are expected to make every effort possible to submit required work by the due date.

The following factors are considered not to be contributing to or constituting extenuating circumstances:

- Computer failure will not be considered a valid reason for the late submission of assignments, and extensions of more than “two life happens days” (see course outline for more details) will not be granted as a result of computer failure. Software crashes, disk failures and printing difficulties are an unavoidable aspect of using a computer and should be anticipated and planned for.
- Assessment tasks in other subjects: Students are given fair notice of assessment due dates and are expected to manage their time in order to meet the set deadlines. This specifically includes assessment resulting from an approved overload.
- Employment responsibilities and routine financial support needs: Only in very exceptional circumstances would students be eligible for extensions for work commitments (for example, an unplanned, urgent and unavoidable overseas work task for a professional full-time worker studying part-time).
- Social activities and commitments: Social activities (for example, recreational travel (domestic or international), planned events such as weddings, or participation in a University play) are expected to be undertaken and managed by students without interfering with their ability to fulfil assessment tasks.
- Stress or “normal” anxiety: the stress or anxiety normally associated with the completion of required assessment tasks or any aspect of course work is not considered. A medically diagnosed anxiety disorder, however, may be grounds for an extension or other accommodation under the policy for students experiencing academic disadvantage.

### Class Communication

You are required to obtain and use your University of Manitoba email account for all communication between yourself and the university. All communication must comply with the Electronic Communication with Student Policy:

[http://umanitoba.ca/admin/governance/governing\\_documents/community/electronic\\_communication\\_with\\_students\\_policy.html](http://umanitoba.ca/admin/governance/governing_documents/community/electronic_communication_with_students_policy.html).

### Recording Class Lectures

No audio or video recording of lectures or presentations is allowed in any format, openly or surreptitiously, in whole or in part without permission from Robert Duncan. Course materials (both paper and digital) are for the participant’s private study and research.

### Referencing Style

All references cited in your report should be in alphabetical order according to the senior (first) author's surname. The following is the standard method for citing references to the appropriate journal or book referred to in the body of your Discussion.

**Example 1** - citation of a multi-authored book in which each chapter is written by a different author but the complete publication is edited by one or two persons. The author(s) and page numbers of the specific chapter are cited.

Baker, L.M. and E. Green. 1984. The inheritance of eye colour. p. 187-241, In: Human genetics. A. Brown (ed.), Plenum Press, New York.

**Example 2** - citation of a book as in Example 1 except that only one person has authored and edited the entire book (e.g. a textbook).

Russell, P.J. 1986. Translation of the genetic message. p. 437-466, In: Genetics. Little, Brown and Co., Boston.

**Example 3** - citation of a paper from a scientific journal.

Kerby, K. and J. Kuspira. 1987. The phylogeny of the polyploid wheats. Genome, 29:722-737.

### Technology Use

It is the general University of Manitoba policy that all technology resources are to be used in a responsible, efficient, ethical and legal manner. The student can use technology during classes and labs only for educational purposes approved by instructor and/or the University of Manitoba Student Accessibility Services. Students should not participate in personal direct electronic messaging / posting activities (e-mail, texting, video or voice chat, wikis, blogs, social networking (e.g. Facebook) online and offline “gaming” during the scheduled class/lab times. If a student is on call (emergency) the student should switch his/her cell phone and/or notifications off. (©[S Kondrashov](#). Used with permission).

It is a requirement that you have all hardware, software and connection ability necessary to successfully operate UM Learn. Course material, grades and communication will occur using UM Learn.

### Using Copyrighted Material

Please respect copyright. We will use copyrighted content in this course. I have ensured that the content I use is appropriately acknowledged and is copied in accordance with copyright laws and university guidelines. Copyrighted works, including those created by me, are made available for private study and research and must not be distributed in any format without permission. Do not upload copyrighted works to a learning management system (such as UM Learn) or any website (e.g., Course Hero, Chegg, etc.), unless an exception to the Copyright Act applies or written permission has been confirmed. For more information, see the [University's Copyright Office website](#) (<http://umanitoba.ca/copyright/>) or contact [um\\_copyright@umanitoba.ca](mailto:um_copyright@umanitoba.ca).

# UM Policies

As a student at the University of Manitoba you have rights and responsibilities. It is important for you to know what you can expect from the University as a student and to understand what the University expects from you. Become familiar with the policies and procedures of the University and the regulations that are specific to your faculty, college or school.

The University of Manitoba (UM) website's [Governing Documents](https://umanitoba.ca/governance/governing-documents) (<https://umanitoba.ca/governance/governing-documents>) is one important source of information, in particular the Academic and Students sections. The Student Advocacy office can also help you understand policies and procedures; find their information in the UM Learner Supports section below.

## Academic Calendar

The [Academic Calendar](https://umanitoba.ca/registrar/academic-calendar) (<https://umanitoba.ca/registrar/academic-calendar>) is the University's official publication containing course descriptions, program and graduation requirements, as well as UM and faculty/school-specific rules, regulations and policies. In particular, familiarize yourself with the sections *University Policies and Procedures* and *General Academic Regulations*.

## Academic Integrity

In addition to reviewing your instructor's academic integrity policy listed in their syllabus, you are expected to view the *General Academic Regulation* section within the [Academic Calendar](https://umanitoba.ca/registrar/academic-calendar) (<https://umanitoba.ca/registrar/academic-calendar>) and specifically read the regulation pertaining to Academic Integrity. Ask your instructor for additional information about demonstrating academic integrity in your academic work, and consult the following UM resources for more information and support:

- [Academic Integrity](https://umanitoba.ca/student-supports/academic-supports/academic-integrity) (<https://umanitoba.ca/student-supports/academic-supports/academic-integrity>)
  - [Student Resources](https://umanitoba.ca/student-supports/academic-supports/academic-integrity#resources-to-conduct-academic-work-with-integrity) (<https://umanitoba.ca/student-supports/academic-supports/academic-integrity#resources-to-conduct-academic-work-with-integrity>)
  - [Academic Misconduct and How to Avoid It](https://umanitoba.ca/student-supports/academic-supports/academic-integrity#academic-misconduct-and-how-to-avoid-it) (<https://umanitoba.ca/student-supports/academic-supports/academic-integrity#academic-misconduct-and-how-to-avoid-it>)
- [Student Advocacy Office](https://umanitoba.ca/student-supports/academic-supports/student-advocacy) (<https://umanitoba.ca/student-supports/academic-supports/student-advocacy>)

## Copyright

All students are required to respect copyright as per Canada's *Copyright Act*. Staff and students play a key role in the University's copyright compliance as we balance user rights for educational purposes with the rights of content creators from around the world. The [Copyright Office](https://umanitoba.ca/copyright/) (https://umanitoba.ca/copyright/) provides copyright resources and support for all members of the University of Manitoba community.

## Grade Appeals

If you have questions about your grades, talk to your instructor. There is a process for term work and final grade appeals. Note that you have the right to access your final examination scripts. See the [Registrar's Office](https://umanitoba.ca/registrar/grades/appeal-grade) (https://umanitoba.ca/registrar/grades/appeal-grade) for more information including appeal deadline dates and the appeal form.

## Intellectual Property

For information about rights and responsibilities regarding intellectual property view the [Intellectual Property Policy](https://umanitoba.ca/governance/governing-documents/governing-documents-university-community#intellectual-property) (https://umanitoba.ca/governance/governing-documents/governing-documents-university-community#intellectual-property)

## Program-Specific Regulations

For information on regulations that are specific to your academic program, read the section in the Academic Calendar and on the respective [faculty/college/school](https://umanitoba.ca/academics) website (https://umanitoba.ca/academics).

## Respectful Work and Learning Environment

The University is committed to a respectful work and learning environment. You have the right to be treated with respect and you are expected to conduct yourself in an appropriate and respectful manner. Policies governing UM community behaviour include:

- [Respectful Work and Learning Environment](https://umanitoba.ca/about-um/respectful-work-and-learning-environment-policy) (https://umanitoba.ca/about-um/respectful-work-and-learning-environment-policy)
- [Student Discipline](https://umanitoba.ca/governance/governing-documents-students#student-discipline) (https://umanitoba.ca/governance/governing-documents-students#student-discipline)

- [Violent or Threatening Behaviour](https://umanitoba.ca/governance/governing-documents-students#violent-or-threatening-behaviour) (https://umanitoba.ca/governance/governing-documents-students#violent-or-threatening-behaviour)

The UM website, [Engaging in Respectful Conduct](https://umanitoba.ca/student-supports/respectful-conduct) (https://umanitoba.ca/student-supports/respectful-conduct), includes more details about expectations for behaviours related to university activities.

## Sexual Violence Policies

The UM has several policies and procedures that deal with the rights and responsibilities of the University community with regards to all forms of sexual violence. For a comprehensive list of policies and associated resources, visit the [Sexual Violence Resource Centre's information page](https://umanitoba.ca/student-supports/sexual-violence-support-and-education/sexual-violence-get-informed) (https://umanitoba.ca/student-supports/sexual-violence-support-and-education/sexual-violence-get-informed). Please note that there are many supports available in addition to these policy documents (see UM Learner Supports).

## Voluntary Withdrawal

Voluntary withdrawal (VW) is a way for students to leave a class without academic penalty once the Registration Revision Period has ended. If you opt to voluntarily withdraw from a course, you will not be eligible for a refund and, if applicable, will still be required to pay any outstanding tuition fees for the course. On your transcript, the course you have withdrawn from will be listed; however, "VW" will appear in lieu of a grade. If you do not drop a course before the VW deadline, you will receive a final grade in the course on your transcript.

Please note that there are separate deadlines for dropping a course early in a term during the Registration Revision Period. Dropping a course means you are removing that course from your schedule, will not be charged tuition fees for that course, and the course will not appear on your transcript.

The Registrar's Office website, [Withdraw from a Course](https://umanitoba.ca/registrar/withdraw-course) (https://umanitoba.ca/registrar/withdraw-course), includes more information on the different ways in which you can withdraw from a course and important dates and deadlines to do so.

## UM Learner Supports

Below you will find a select list of important supports for learners at the UM, both academic supports and otherwise. For a complete listing of all learner supports at the University of

Manitoba, visit the [Everything You Need to Thrive](https://umanitoba.ca/student-supports) (<https://umanitoba.ca/student-supports>) website.

## 2SLGBTQIA+ Community

Find your queer community on campus! UM is committed to being an inclusive and welcoming space for all 2SLGBTQ+ students, staff and faculty. Visit the [2SLGBTQ+ Community](https://umanitoba.ca/2slgbtq-community) (<https://umanitoba.ca/2slgbtq-community>) website to access services, find resources, and connect with like-minded people and allies.

## Academic Advising

Contact an [Academic Advisor](https://umanitoba.ca/student-supports/academic-supports/academic-advising) (<https://umanitoba.ca/student-supports/academic-supports/academic-advising>) for support with degree planning and questions about your academic program and regulations.

## Academic Learning Centre (ALC)

The [Academic Learning Centre](https://umanitoba.ca/student-supports/academic-supports/academic-learning) (<https://umanitoba.ca/student-supports/academic-supports/academic-learning>) offers one-to-one tutoring, groups study sessions and workshops, as well as video and tip-sheet resources to help you throughout your academic program. All Academic Learning Centre programming, supports, and services are free for UM students.

Make an appointment for [free one-to-one tutoring](https://umanitoba.ca/student-supports/academic-supports/academic-learning/tutoring-group-study#individual-tutoring) (<https://umanitoba.ca/student-supports/academic-supports/academic-learning/tutoring-group-study#individual-tutoring>). Content tutors (over 90 UM courses) can help you understand concepts and learn problem-solving strategies. Study skills tutors can help you improve your skills such as time management and goal setting, reading and note-taking, as well as learning and test-taking strategies. Writing tutors can give you feedback on your academic writing, whether you are just getting started on a written assignment or already have a draft. English as an Additional Language specialist, Antoanela Denchuk, is available for one-to-one tutoring to help you improve your English-language academic writing skills. Use the drop-down menu, read the tutor biographies, and make an appointment for tutoring on the [Academic Learning Centre schedule](https://manitoba.mywconline.com/) (<https://manitoba.mywconline.com/>).

Attend [Supplemental Instruction \(SI\)](https://umanitoba.ca/student-supports/academic-supports/academic-learning/tutoring-group-study) (<https://umanitoba.ca/student-supports/academic-supports/academic-learning/tutoring-group-study>) sessions in historically difficult courses (including Chemistry, Engineering, and Computer Science). These free weekly review sessions are facilitated by a peer mentor who has previously taken the course and provide an opportunity to discuss course content, ask questions, compare notes, solve practice problems, and develop study strategies. See online for a list of SI courses and meeting times.

Register for an [Academic Success Workshop](https://umanitoba.ca/student-supports/academic-supports/academic-learning/academic-success-workshops) (https://umanitoba.ca/student-supports/academic-supports/academic-learning/academic-success-workshops), where you can learn strategies to improve your writing and studying. More information on topics, dates, and registration, are found online.

Register for [Faculty of Graduate Studies Grad Steps Workshops](https://umanitoba.ca/graduate-studies/student-experience/graduate-student-workshops) (https://umanitoba.ca/graduate-studies/student-experience/graduate-student-workshops). These workshops are specifically designed for students working towards Master's degrees or PhDs. More information on topics, dates, and registration can be found online.

Access the Academic Learning Centre's collection of [videos and tip sheets](https://umanitoba.ca/student-supports/academic-supports/academic-learning#tip-sheets-for-writing-and-study-skills) (https://umanitoba.ca/student-supports/academic-supports/academic-learning#tip-sheets-for-writing-and-study-skills) to help you with many of the academic tasks you'll encounter in university.

Contact the Academic Learning Centre by calling 204-480-1481 or emailing [academic\\_learning@umanitoba.ca](mailto:academic_learning@umanitoba.ca). Bannatyne students can contact the Bannatyne Student Services office at 204-272-3190.

## Basic Needs

It can be difficult to learn and succeed in courses when you are struggling to meet your or your family's basic needs. Several UM and community resources are listed below if you would benefit from support with regards to housing, food, finances, and/or childcare:

- *Housing*
  - [UM Housing](https://umanitoba.ca/housing) (https://umanitoba.ca/housing)
  - [Winnipeg Rental Network](https://www.winnipegrentnet.ca/) (https://www.winnipegrentnet.ca/)
  - [Manitoba Residential Tenancies Branch](https://www.gov.mb.ca/ccar/btb/) (https://www.gov.mb.ca/ccar/btb/)
  - [HOPE End Homelessness Winnipeg Services & Supports](https://umanitoba.ca/housing) (https://umanitoba.ca/housing)
- *Food*
  - [U of M Food Bank](https://umanitoba.ca/financial-aid-and-awards/u-m-food-bank) (https://umanitoba.ca/financial-aid-and-awards/u-m-food-bank)
  - [Food Matters Manitoba](https://foodmattersmanitoba.ca/find-emergency-food-in-winnipeg/) (https://foodmattersmanitoba.ca/find-emergency-food-in-winnipeg/)
- *Finances*
  - [UM Financial Aid and Awards](https://umanitoba.ca/financial-aid-and-awards) (https://umanitoba.ca/financial-aid-and-awards)
  - [Manitoba Student Aid](https://www.edu.gov.mb.ca/msa/) (https://www.edu.gov.mb.ca/msa/)
- *Child Care*
  - [UM Child Care](https://umanitoba.ca/about-um/child-care) (https://umanitoba.ca/about-um/child-care)
  - [Manitoba Child Care Subsidy](https://bit.ly/3yG3ijy) (https://bit.ly/3yG3ijy)
  - [Manitoba Child Care Association](https://mccahouse.org/looking-for-child-care/) (https://mccahouse.org/looking-for-child-care/)



## English Language Centre

The [English Language Centre \(ELC\)](https://umanitoba.ca/english-language-centre) (https://umanitoba.ca/english-language-centre) provides courses, tests, accommodations and individual support to students whose first language is not English in order to support academic success and participation in the University of Manitoba community.

## Health and Wellness

Physical, mental, emotional, and spiritual health and wellness play a critical role in student success. See all of UM's resource on their [Health and Wellness](https://umanitoba.ca/student-supports/student-health-and-wellness) (https://umanitoba.ca/student-supports/student-health-and-wellness) website, and make note of several specific UM and community supports listed below.

### Winnipeg Urgent Physical and Mental Health Care

If you are an adult experiencing a mental health or psychosocial crisis, contact the [Klinik Community Health](https://klinik.mb.ca/crisis-support/) (https://klinik.mb.ca/crisis-support/) 24/7 crisis line at 204-786-8686, visit the [Crisis Response Centre](https://sharedhealthmb.ca/services/mental-health/crisis-response-centre/) (https://sharedhealthmb.ca/services/mental-health/crisis-response-centre/) located at 817 Bannatyne Avenue, or contact the Mobile Crisis Service at 204-940-1781.

To speak with a nurse for guidance on what health-care path to take for the issue you are facing or for general information about health resources available in Manitoba, contact [Health Links](https://misericordia.mb.ca/programs/phcc/health-links-info-sante/) (https://misericordia.mb.ca/programs/phcc/health-links-info-sante/) at 1-888-315-9257 (toll free).

If you need urgent medical care, visit the Winnipeg Regional Health Authority's [Emergency Department & Urgent Care Wait Times](https://wrha.mb.ca/wait-times/) webpage (https://wrha.mb.ca/wait-times/) for a list of locations and current wait times.

### Student Counselling Centre (SCC)

The [Student Counselling Centre](https://umanitoba.ca/student-supports/student-health-and-wellness/student-counselling-centre-scc) (https://umanitoba.ca/student-supports/student-health-and-wellness/student-counselling-centre-scc) provides free counselling and mental health support to UM, English Language Centre, and International College of Manitoba (ICM) students. We are open year-round, Monday through Friday from 8:30 am to 4:30 pm. Our commitment is to offer a support service to every student who contacts us.

Visit the SCC's [For Urgent Help](https://umanitoba.ca/student-supports/student-health-and-wellness/student-counselling-centre-scc#for-urgent-help) (https://umanitoba.ca/student-supports/student-health-and-wellness/student-counselling-centre-scc#for-urgent-help) webpage or the urgent care resources listed above if you require immediate support.

Visit the SCC's [Our Services](https://umanitoba.ca/student-supports/student-health-and-wellness/student-counselling-centre-scc#for-urgent-help) (https://umanitoba.ca/student-supports/student-health-and-wellness/student-counselling-centre-scc#for-urgent-help) webpage for more information on accessing a variety of services including individual counselling, counselling workshops and groups, support resources, and learning disability assessment services.

The SCC is located is located at 474 UMSU University Centre (Fort Garry Campus).

### Health and Wellness Office

Students often juggle multiple demands, and we recognize that it can be difficult to find balance. For any changes you want to make to your health and wellness, the Health and Wellness Office at the University of Manitoba would like to support you in your journey. We are here to help you take control of your own health and make your own decisions. We are a judgment-free space and we avoid labels whenever possible. For more information, please visit the [Health and Wellness Office](https://umanitoba.ca/student-supports/health-wellness) (https://umanitoba.ca/student-supports/health-wellness) website.

### Spiritual Care and Multifaith Centre

Spiritual care services are available to all, whether you identify as spiritual, atheist, religious or agnostic. [Spiritual Services](https://umanitoba.ca/student-supports/spiritual-services) (https://umanitoba.ca/student-supports/spiritual-services) also offer specific denominational support for certain religious groups and by Indigenous Elders-in-Residence.

### Student Support Case Management (SSCM)

Contact the [Student Support Case Management team](https://umanitoba.ca/student-supports/academic-supports/student-advocacy/case-management) (https://umanitoba.ca/student-supports/academic-supports/student-advocacy/case-management) if you are concerned about yourself or another student and don't know where to turn. SSCM helps connect students with on and off campus resources, provides safety planning, and offers other supports, including consultation, educational workshops, and referral to the STATIS threat assessment team.

### University Health Service (UHS)

The [University Health Service](https://umanitoba.ca/student-supports/health-wellness/university-health-service) (https://umanitoba.ca/student-supports/health-wellness/university-health-service) offers a full range of medical services to students, including psychiatric consultation, via two health clinics:

- Fort Garry Campus: (204) 474-8411, ACW-Lot temporary trailer (behind the Isbister building)

- Bannatyne Campus: (204) 474-8411, P309 – Pathology Building

### Student Services at Bannatyne Campus

Student Services at Bannatyne Campus (SSBC) offers a full range of mental health supports to students and residents in the Rady Faculty of Health Sciences, along with other academic and personal supports. Visit the [SSBC website](https://umanitoba.ca/student-supports/student-services-bannatyne-campus) (https://umanitoba.ca/student-supports/student-services-bannatyne-campus) for a list of services available.

## Indigenous Students

Staff, faculty and Elders are well-equipped to ensure your university experience is as beneficial, accessible, and successful as possible. Visit the Indigenous [Student Experience](https://umanitoba.ca/indigenous/student-experience) (https://umanitoba.ca/indigenous/student-experience) website for more information on the supports and services available.

## International Students

The transition to a new country and a new academic system can be both exciting and overwhelming. The International Centre (IC) is here to help you settle into life at University of Manitoba. Visit the [International Students](https://umanitoba.ca/current-students/international) website (https://umanitoba.ca/current-students/international) for more information.

## Sexual Violence Support and Education

Sexual violence affects people of all ages, sexual orientations, genders, gender identities, abilities and relationship statuses. At the U of M, we are committed to ensuring a respectful work and learning environment for all. We want to build a safe and inclusive campus community where survivors of sexual violence know they can receive the supports they need to succeed, both academically and personally.

The [Sexual Violence Resource Centre](https://umanitoba.ca/sexual-violence) (https://umanitoba.ca/sexual-violence), located at 537 UMSU University Centre (Fort Garry campus) provides support, resources, information and referral services for any student, faculty or staff member who has been affected by sexual violence.

## Student Accessibility Services (SAS)

The University of Manitoba is committed to providing an accessible academic community. [Student Accessibility Services](https://umanitoba.ca/student-supports/accessibility) (https://umanitoba.ca/student-supports/accessibility) offers academic accommodation supports and services such as note-taking, interpreting, assistive technology and exam accommodations. Students who have, or think they may have, a disability (e.g., mental health, learning, medical, hearing, injury-related, visual) are invited to contact SAS to arrange a confidential consultation. SAS is located at 520 University Centre (Fort Garry Campus).

## Student Advocacy

[Student Advocacy](https://umanitoba.ca/student-supports/academic-supports/student-advocacy) (https://umanitoba.ca/student-supports/academic-supports/student-advocacy) is a safe place for students. We help you navigate university processes and advocate for your rights as a student at UM. If anything in your personal or academic life is affecting your studies, contact our confidential intake assistant by phone (204-474-7423) or email ([stadv@umanitoba.ca](mailto:stadv@umanitoba.ca)).

## University of Manitoba Libraries (UML)

As the primary contact for all research needs, your liaison librarian can play a key role when completing academic papers and assignments. Liaisons can answer questions about managing citations, or locating appropriate resources, and will address any other concerns you have about the research process. Liaisons can be contacted by email or phone, and are also available to meet with you online or in-person. A [complete list of liaison librarians can be found by subject](http://bit.ly/WcEbA1) (http://bit.ly/WcEbA1).

General library assistance is also available at both the Bannatyne and Fort Garry campuses by [visiting any library location](https://www.umanitoba.ca/libraries/locations-and-facilities) (https://www.umanitoba.ca/libraries/locations-and-facilities). When working online, students can receive help via the Ask Us chat button found on the right-hand side of the [Libraries' homepage](http://www.umanitoba.ca/libraries) (http://www.umanitoba.ca/libraries).